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## **Diversity of glucocorticoid receptor signaling: molecular mechanisms and therapeutic implications**

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## **DIVERSITY OF GLUCOCORTICOID RECEPTOR SIGNALING**

### **MOLECULAR MECHANISMS AND THERAPEUTIC IMPLICATIONS**

1. The organization of the glucocorticoid receptor interactome in space and time is the basis of its genomic signaling diversity. – *this thesis*.
2. The true understanding of glucocorticoid receptor biology awaits multi-omics at the single cell level. – *this thesis*.
3. Selective glucocorticoid receptor modulators have the potential to dissociate therapeutic efficacy from adverse effects through differential receptor DNA binding and coregulator recruitment. – *I. Zalachoras et al., 2013 PNAS; this thesis*.
4. The plasticity in chromatin organization shapes the cell response to glucocorticoid receptor ligands. – *A. M. D'Ippolito et al., 2018 Cell Syst; this thesis*.
5. Hippocampal corticosteroid receptor signaling connects the stress response to long-term memory, which is crucial for stress adaptation. – *E. R. de Kloet et al., 2005 Nat Rev Neurosci; this thesis*.
6. The hypothalamic pituitary adrenal axis activity is a perfect example of allostasis, a new dynamic equilibrium in response to novel circumstances. – *S. L. Lightman et al., 2020 Endocrine Reviews*.
7. It is not meaningful to ask what a gene does, just what it does in a particular environment – *R. M. Sapolsky, 2017 Behave – The biology of humans at our best and worst*.
8. Stress instruments produce an orchestrated 'symphony' that enables fine-tuned responses to environmental challenges. – *M. Joëls & T. Z. Baram, 2009 Nat Rev Neurosci*.
9. Skepticism above all else is what characterizes the best science. – *after Gareth Leng, 2022 Plenary lecture at International Congress of Neuroendocrinology*.
10. "Slowly is the fastest way to get to where you want to be." – *André R. De Shields, 2019 Tony Awards*. – In the pursuit of scientific answers, one should cherish every milestone, regardless of how small they may appear.